

**PERMANONE® READY-TO-USE INSECTICIDE**

MSDS Version 1.1

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Product Name** PERMANONE® READY-TO-USE INSECTICIDE  
**Chemical Name**  
**Synonym**  
**MSDS Number** 128  
**Chemical Family** Mixture  
**Chemical Formulation** Mixture  
**EPA Registration No.** 432-1182  
**Canadian Registrat. No.**

Bayer Environmental Science  
95 Chestnut Ridge Road  
Montvale, NJ 07645  
USA

For Product Use Information: (800)331-2867 Monday through Friday(CRLF) 8:00AM-4:30PM(CRLF) For Medical Emergency contact DART: (800) 334-7577 24 Hours/Day(CRLF) For Transportation Emergency CHEMTREC: (800) 424-9300 24 Hours/Day

**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
Permethrin	52645-53-1	3.9800	
Piperonyl butoxide	51-03-6	8.4800	
Isoparaffinic Petroleum Solvent	64742-47-8	> 80.0000	

**SECTION 3. HAZARDS IDENTIFICATION**

*NOTE: Please refer to Section 11 for detailed toxicological information.*

**Emergency Overview** Health: Harmful if absorbed. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

Environmental: This pesticide is highly toxic to fish and bees.

**Physical State** liquid

**Odor** Mild aromatic odor.

**Appearance** Golden amber liquid.

# Material Safety Data Sheet

## PERMANONE® READY-TO-USE INSECTICIDE

MSDS Number: 000000000128

MSDS Version 1.1

<b>Routes of Exposure</b>	Skin contact
<b>Immediate Effects</b>	
<b>Eye</b>	Minimally irritating.
<b>Skin</b>	Slightly irritating. Harmful if absorbed.
<b>Chronic or Delayed Long-Term</b>	See Section 11 for carcinogenic/oncogenic information on piperonyl butoxide and permethrin.

### SECTION 4. FIRST AID MEASURES

<b>Eye</b>	Flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
<b>Skin</b>	Remove all contaminated clothing. Wash with plenty of soap and water. Get medical attention if irritation persists.
<b>Ingestion</b>	Contact a Physician or Poison Control Center. This product contains petroleum solvent. Aspiration may be a hazard.
<b>Inhalation</b>	Remove to fresh air. If breathing is difficult or if discomfort persists, obtain medical attention.
<b>Note to Physician</b>	<p>This product contains a pyrethroid and a petroleum solvent. If ingested and vomiting has not occurred, emesis should be induced with supervision. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.</p> <p>Do not administer milk, cream or other substances containing vegetable or animal fats. These only enhance absorption of lipophilic substances.</p>

### SECTION 5. FIRE FIGHTING MEASURES

<b>Flash Point</b>	46 °C / 115 °F TCC
<b>Fire and Explosion Hazards</b>	Do not use or store near heat or open flame.
<b>Suitable Extinguishing Media</b>	Carbon dioxide, dry chemical, foam or water.
<b>Fire Fighting Instructions</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear.

# Material Safety Data Sheet

## PERMANONE® READY-TO-USE INSECTICIDE

MSDS Number: 000000000128

MSDS Version 1.1

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**General and Disposal** Soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

### SECTION 7. HANDLING AND STORAGE

**Handling Procedures** Avoid contact with eyes, skin or clothing.

**Storing Procedures** Store upright at room temperature. Avoid exposure to extreme temperatures.

**Work/Hygienic Procedures** Wash thoroughly with soap and water after handling.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eye/Face Protection** Safety glasses or goggles.

**Body Protection** Impervious gloves.  
Long sleeves and pants to prevent skin contact.

**Respiratory Protection** Wear NIOSH-approved dust respirator in poorly ventilated areas.

#### Exposure Limits

Isoparaffinic Petroleum Solvent	64742-47-8	ACGIH NIC	TWA	200 mg/m3
---------------------------------	------------	-----------	-----	-----------

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Golden amber liquid.

**Physical State** liquid

**Odor** Mild aromatic odor.

**Specific Gravity** 0.87

# Material Safety Data Sheet

## PERMANONE® READY-TO-USE INSECTICIDE

MSDS Number: 000000000128

MSDS Version 1.1

**Solubility (in water)** Insoluble  
insoluble

### SECTION 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable

**Conditions to Avoid** Ignition sources, excessive heat.

**Incompatibility** Strong oxidizing and reducing agents.

**Hazardous Polymerization (Conditions to avoid)** Will not occur

### SECTION 11. TOXICOLOGICAL INFORMATION

**Acute Oral Toxicity** LD50 > 5,050 mg/kg

**Acute Dermal Toxicity** Absorption: LD50 > 2,020 mg/kg

**Acute Inhalation Toxicity** 4-Hour LC50 > 5.22 mg/L  
1-Hour equivalent LC50 > 20.88 mg/L (for DOT purposes)

**Skin Irritation** Irritation: Slightly irritating

**Eye Irritation** Minimally irritating

**Sensitization** Non-sensitizing

Data from previous MSDS dated from 3/1/92

Symptoms observed in studies with laboratory animals exposed at or near the LD50/LC50 included increased urination, decreased activity, nasal discharge, salivation, bulging eyes and erect body hair. Extremely high doses have caused convulsions.

**Chronic Toxicity** A statistically significant increase in the incidence of lung and liver tumors was observed in female mice receiving diets containing 375 and 750 mg/kg/day of permethrin technical over 85 weeks.

A statistically significant increase in the number of benign liver tumors appeared in mice fed piperonyl butoxide technical at doses which far exceed any anticipated daily human intake. Independent and industry toxicological experts who have reviewed the data agree that the findings of the study do not indicate a health risk to human beings.

### Assessment Carcinogenicity

# Material Safety Data Sheet

## PERMANONE® READY-TO-USE INSECTICIDE

MSDS Number: 000000000128

MSDS Version 1.1

### ACGIH

None

### NTP

None

### IARC

Permethrin

52645-53-1

3

Piperonyl butoxide

51-03-6

3

### OSHA

None

## SECTION 12. ECOLOGICAL INFORMATION

### Environmental Precautions

This product is highly toxic to fish. Avoid direct application to lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent areas. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters. Apply this product only as specified on its label.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are actively visiting treatment area.

Do not allow spray treatment to drift on pastureland, cropland, poultry ranges or water supplies. Do not use on crops for food, forage or pasture.

## SECTION 13. DISPOSAL CONSIDERATIONS

### General Disposal Guidance

Pesticide Disposal: Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

### Container Disposal

Containers One Gallon and Smaller: Do not reuse empty container. Wrap container in several layers of newspaper and discard in trash.

Containers Larger than One Gallon:

Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, if allowed by state and local authorities, by burning. If burned stay out of smoke. Then dispose of in a sanitary landfill or by other approved State and local procedures.

### RCRA Classification

# Material Safety Data Sheet

## PERMANONE® READY-TO-USE INSECTICIDE

MSDS Number: 000000000128

MSDS Version 1.1

### SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Flammable Liquids, n.o.s. (Petroleum distillate)

HAZARD CLASS: 3, PG III

DOT IDENTIFICATION NUMBER: UN1993

DOT SHIPPING LABEL: Flammable Liquid

### SECTION 15. REGULATORY INFORMATION

#### US Federal

EPA Registration No. 432-1182

#### TSCA list

Piperonyl butoxide	51-03-6
Isoparaffinic Petroleum Solvent	64742-47-8

#### TSCA 12b export notification

None

#### SARA Title III - section 302 - notification and information

None

#### SARA Title III - section 313 - toxic chemical release reporting

Permethrin	52645-53-1	1.0%
Piperonyl butoxide	51-03-6	1.0%

#### US States Regulatory

##### CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

#### US State right-to-know ingredients

Permethrin	52645-53-1	NJ
Piperonyl butoxide	51-03-6	NJ

#### Canadian Regulations

##### Canadian Registrat. No.

##### Canadian Domestic Substance List

Piperonyl butoxide	51-03-6
Isoparaffinic Petroleum Solvent	64742-47-8

#### Environmental

##### CERCLA

None

##### Clean Water Section 307 Priority Pollutants

None

# Material Safety Data Sheet

## PERMANONE® READY-TO-USE INSECTICIDE

MSDS Number: 000000000128

MSDS Version 1.1

### Safe Drinking Water Act Maximum Contaminant Levels

None

### International Regulations

#### EU Classification

None

#### European Inventory of Existing Commercial Substances (EINECS)

Permethrin	52645-53-1
Piperonyl butoxide	51-03-6
Isoparaffinic Petroleum Solvent	64742-47-8

## SECTION 16. OTHER INFORMATION

### REVISED SECTIONS:

MSDS REVISION INDICATOR: New Format, Company Name and EPA Number.

PREPARED BY: Regulatory Department

PHONE: 800-438-5837

SUPERCEDES MSDS DATED: 01/19/95

Print Date: 01/18/2003

Supersedes MSDS, which is older than: 01/18/2003

This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer AG. Bayer Environmental Science